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AMENDMENTS TO THE CLAIMS

Please replace the claims, including all prior versions, with the listing of claims below.

Listing of Claims:

1. (Currently amended) A Mmethod for controlling an internal combustion engine with an

intake duct, at least one cylinder, an exhaust gas duct (40) and inlet and exhaust valves

(32, 38), assigned to the at least one cylinder (26), comprising which for calculation of

calculating a fresh air mass (MAF) flowing into the at least one cylinder up to a first

critical value (P1) of the induction manifold pressure (MAP) which is proportional to the

induction manifoldintake pressure, and as of a second critical value (P2) of the induction

manifold pressure which is proportional to the induction manifold intake pressure plus an

air mass constant (OFF2), and which runs non-linearly in a transitional area between the

two critical values for the induction manifold pressure.

2. (Currently amended) The Mmethod according to Claim 1, characterized in that

forwherein for the transitional area, the in-flowing air mass additionally becomes

dependent on the a quotient of the induction manifold pressure and exhaust gas back

pressure.

(Currently amended) The Mmethod according to Claim 2, characterized in that wherein 3.

the value dependent on the quotient is multiplied by a factor dependent on the speed (56)

and the valve overlap (66).

4. (Currently amended) The Mmethod according to one of Claims 1 to 3, characterized in

that Claim 3, wherein for the transitional area, the in-flowing mass air is determined as a

function of valve overlap and engine speed.

(Currently amended) The Mmethod according to one of Claims 1 to 4, characterized in 5.

that Claim 4, wherein the a proportionality factor between the in-flowing fresh air mass and the

induction manifold pressure is dependent on the speed and/or the position of the a crankshaft

when the inlet valve (ES) is closed.

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6. Currently amended) The mMethod according to one of Claims 1 to 5, characterized in

that Claim 5, wherein the air mass constant has a first constant (η_{01}) , the value of which depends

on the speed-(N) and a value for the valve overlap-(VO).

7. (Currently amended) The Mmethod according to Claim 6, characterized in that wherein

the air mass constant has a second constant (η_{02}) , the value of which depends on the speed (N)

and the position of the crankshaft when the exhaust valves (AS) are closed.

8. (Currently amended) The Mmethod according to one of Claims 1 to 7, characterized in

that Claim 7, wherein for the fresh air mass (MAF) flowing into the cylinder, a pressure loss

dependent on the speed of flow in the induction manifold is additionally-taken into account.

9. (Currently amended) The Mmethod according to Claim 8, characterized in that wherein

the pressure loss dependent on the speed of flow is determined as a function of one or more

variables stored in the control devices.

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